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| Application No. | Applicant(s)   |
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| 09/521,618      | LEBLANS ET AL. |
| Examiner        | Art Unit       |
| Eric J Spears   | 2878           |

|          |          | 4            | Rejected |         |         |         | Ŀ       | L       | (T       | hrou<br>Ca | gh n<br>ance | llec     | era<br>I | ai)<br>       | ]        |             | N         | No       | on-           | Ele      | ect      | ed  |           | A        |          | Α        | ppe      | al            |         |          |          |          |          |
|----------|----------|--------------|----------|---------|---------|---------|---------|---------|----------|------------|--------------|----------|----------|---------------|----------|-------------|-----------|----------|---------------|----------|----------|-----|-----------|----------|----------|----------|----------|---------------|---------|----------|----------|----------|----------|
|          |          | =            |          |         |         |         | 1       |         |          | Re         | stric        | tec      | 1        |               |          |             | 1         | In       | ter           | fer      | en       | СӨ  |           | 0        |          | Ob       | jec      | te            | d       |          |          |          |          |
| Cli      | im       |              | _        | _       | D٤      | ate     |         | _       | _        | 1          | Claim [      |          |          |               |          |             | ate       | _        | _             | _        |          | (   | CI        | aim      |          | _        |          | D             | ate     | _        | _        | _        |          |
| Final    | Original |              |          |         |         |         |         |         | į        |            | Final        | Original |          |               |          |             |           |          |               |          |          |     | Final     | Original |          |          |          |               |         |          | 1        |          |          |
| -        | 1        |              | +        | +       | +       | +       | +       | +       | +-       | +          | -            | 51       | 1        | -             | +        | +           | +         | 4        | +             | +        | -        | - 1 |           | 101      | H        | -1       | +        | +             | +       | +        | +        | +        | $\dashv$ |
|          | 2        |              | +        | +       | +       | +       | +       | +       | +        | 1          | $\vdash$     | 52       | V        |               | $\dashv$ | $^{+}$      | 7         |          | 7             |          | 7        | - 1 |           | 102      | 1        | 7        | 7        | 7             | ┪       | ╛        | T        | T        |          |
| $\Box$   | 3        | 1            | $\Box$   | 7       | Т       | T       | 1       | 1       | Т        | 1          |              | 53       |          |               | T        | 7           | $\neg$    |          | П             | ٦        |          | ı   |           | 103      | П        |          | $\neg$   |               |         |          | T        |          |          |
|          | 4        |              |          | T       | T       |         | T       | T       | Γ        | ]          |              | 54       |          |               |          | I           | $\exists$ |          | I             | I        |          | [   |           | 104      |          |          | $\Box$   | П             | $\Box$  | $\neg$   | П        |          |          |
|          | 5        | V            | $\Box$   | I       | I       | I       | Τ       |         | 1        | ]          |              | 55       |          |               |          | $\perp$     |           |          | 1             |          |          | - [ |           | 105      |          |          | _        |               | $\perp$ |          | _        | _        |          |
|          | 6        | 4            |          | 1       | I       | I       |         | $\perp$ |          | 1          |              | 56       |          |               |          |             | _         |          | _             | _        | _        | ļ   |           | 106      | Ш        | _        | _        |               | _       | _        | _        | _        | _        |
| L_       | 7        | L            | $\perp$  | _       | $\perp$ | $\perp$ | 4       | 1       | _        | 1          |              | 57       |          |               | 4        | 4           | -         | $\perp$  | _             | _        | _        | - 1 |           | 107      | $\vdash$ | _        | 4        | 4             | 4       | 4        | 4        | 4        | -        |
| -        | 8        | -            | 1        | $\perp$ | 4       | +       | +       | +       | +-       | -          | <u> </u>     | 58       | ш        | $^{\perp}$    | 4        | 4           | _         | 1        | _             | 4        | _        | 1   |           | 108      | ↤        | _        | 4        | -             | 4       | -1       | -1       |          | $\dashv$ |
| <u></u>  | 9        | 1            | 1        | 4       | 4       | 4       | +       | 4       | +        | 1          |              | 59       | -        | _             | -        | -           | 4         | -1       | 4             | 4        | 4        | -   |           | 109      | 1-1      |          | _        | 4             | 4       | -        | -1       | -1       | 4        |
| -        | 10       | 1            | ₩        | -       | +       | +       | +       | +       | +        | 1          |              | 60       | -        | -             | -        | -           | 4         |          | -+            |          | -        | - } |           | 110      | $\vdash$ | -        | -        | +             | +       | -1       | -        | $\dashv$ | -        |
|          | 11       | <del> </del> | ₩.       | +       | +       | +       | +       | +       | +        | 1          | <u> </u>     | 61       | $\vdash$ | -             | -+       | +           | -         | -        | +             | -        |          | ļ   |           | 111      | $\vdash$ | -        | +        | +             | +       | -        | -+       | -        | $\dashv$ |
| -        | 13       | +-           | +        | +       | +       | +       | +       | +       | ╁        | -          |              | 63       | Н        | $\dashv$      | +        | +           | -         | -+       | -+            |          | $\dashv$ | H   |           | 113      | H        | $\dashv$ | -{       | +             | -+      | -        | -+       | $\dashv$ | -        |
| -        | 14       | ┢            | ++       | +       | +       | +       | +       | +       | +-       | 1          | <u> </u>     | 64       | Н        | -             | -        | +           | -         | -        | -             | -+       | -1       | - 1 |           | 114      | -        | -        | +        | +             | +       | $\dashv$ | -        | -        | $\dashv$ |
| -        | 15       | _            | ++       | +       | +       | +-      | +       | +       | ╁        | 1          | ├            | 65       | Н        | $\rightarrow$ | -        | -+          | -         | -        | +             | -        | -        | - 1 |           | 115      | 1-1      | -        | +        | +             | +       | -        | $\dashv$ | -        | -        |
| -        | 16       | -            | +        | +       | +       | +       | +-      | +-      | ╁        | 1          | ⊢            | 66       | Н        | $\dashv$      | +        | +           | -         | $\dashv$ | +             | +        | $\dashv$ | H   |           | 116      | +        | $\dashv$ | +        | +             | -       | -        | $\dashv$ | $\dashv$ | -        |
| -        | 17       | +-           | ++       | +       | +       | +       | +       | +       | +-       | -          |              | 67       | Н        | -             | +        | +           | -         | -        | -             | $\dashv$ | -1       | - 1 |           | 117      | 1 1      | -        | +        | +             | +       | -        | $\dashv$ | -        | $\dashv$ |
| -        | 18       | -            | +        | +       | +       | +       | +-      | +-      | +        | 1          |              | 68       | -        | +             | -+       | -+          | -         | -        | -             | -        | $\dashv$ | - 1 |           | 118      | +        | -        | -        | -+            | +       | -+       | $\dashv$ | +        | $\neg$   |
| -        | 19       | -            | +        | +       | +       | +-      | +       | +       | +-       | 1          |              | 69       | Н        | -             | -        | +           | -         | -        | +             | -        | -1       | - 1 |           | 119      | $\vdash$ | -        | +        | $^{+}$        | +       | 7        | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash$ | 20       | -            |          | +       | +       | +       | +       | +-      | +        | 1          |              | 70       | -        | -             | -        | +           | -         | $\dashv$ | +             | $\dashv$ | -        | - 1 |           | 120      | 1-1      | $\neg$   | +        | _             | -+      | -+       | +        | -+       | $\dashv$ |
| -        | 21       | V            | 1        | +       | +       | +       | +       | +       | +-       | 1          |              | 71       |          |               | +        | +           | -         | -        | -             | -        | -1       | - 1 | _         | 121      | $\vdash$ | -        | +        | +             | _       | $\neg$   | 7        |          | $\dashv$ |
| -        | 22       | Ť            | ++       | +       | +       | +       | +       | +       | +        | 1          | _            | 72       | Н        | -             | -        | +           | -         | $\vdash$ | +             | -        | -!       | - ( |           | 122      | $\vdash$ | $\dashv$ | -+       | -+            | -+      | 7        | -        | -        | -        |
| $\vdash$ | 23       | +-           | +        | +       | +       | +       | +       | +       | +        | 1          |              | 73       |          | -             | 7        | +           | -         | -        | -+            | -        |          |     |           | 123      | 11       | _        | +        | 7             | $\neg$  | $\dashv$ | $\dashv$ | _        | -        |
| -        | 24       | -            | $\vdash$ | +       | +       | +       | 1       | +       | 十        | 1          | _            | 74       | $\vdash$ |               | 7        | 7           | 7         |          | 7             | T        | -1       | - 1 | _         | 124      | $\Box$   |          | _        | _             | 寸       | 7        | 7        |          |          |
| 1        | 25       | -            | +        | +       | +       | +       | +       | +       | $\vdash$ | 1          | _            | 75       |          |               | _        | 1           |           |          | 7             |          |          | - 1 | _         | 125      |          |          | 7        | $\neg$        | 7       | $\neg$   | 7        |          |          |
| _        | 26       | -            | 1        | +       | _       | +       | $^{+}$  | 1       | 1        | 1          |              | 76       | П        |               | 7        | -           |           |          | 7             |          | 7        | - 1 |           | 126      |          |          | ╛        | 7             | -1      |          | 7        |          | 7        |
|          | 27       |              |          | 1       | 1       | 7       | 7       | 1       |          | 1          |              | 77       |          | П             | 7        | 7           | 7         | $\Box$   | 7             |          | $\neg$   |     |           | 127      | T        |          | $\neg$   | ↴             | ٦       | ヿ        | ╗        |          | 7        |
|          | 28       |              |          |         |         |         | T       | 7       | 1        | 1          |              | 78       |          | П             | 7        | $\neg \tau$ | 7         |          | $\neg$        | $\neg$   | $\neg$   | - 1 |           | 128      | П        |          |          | П             | П       | 7        | 7        | 7        | $\neg$   |
|          | 29       |              |          |         | T       | 1       |         | Т       | Т        | 1          |              | 79       |          |               |          |             |           |          |               |          |          | - 1 |           | 129      |          |          |          |               |         | $\Box$   | $\Box$   |          |          |
|          | 30       |              |          | 7       |         | Т       | Т       | T       | 1        | 1          |              | 80       |          |               |          |             |           |          |               |          |          | - 1 |           | 130      |          |          | $\Box$   |               | _ i     | $\Box$   |          |          |          |
|          | 31       |              |          | 1       |         | 1       | 1       | 1       | 1_       | J          |              | 81       |          |               |          |             | _1        |          | _1            |          |          | - 1 |           | 131      |          |          | _        | 4             | 4       | _        | 4        | _        | _        |
|          | 32       |              |          | 1       |         |         | $\perp$ | 1       | L        | 1          |              | 82       |          |               | _        | 4           | _         |          |               | _        |          |     |           | 132      | $\sqcup$ |          |          | _             |         | _        | _        |          | _        |
| <u></u>  | 33       | L            | $\vdash$ | 4       | 4       | 4       | 1       | 1       | $\perp$  | 1          | <u> </u>     | 83       | Ш        | Ш             | 4        | 4           | _         | Ш        | _             | _        | _        | - 1 |           | 133      | $\Box$   | Ц        | 4        | -             | 4       | 4        | _        | -1       | _        |
|          | 34       | L            |          | _       | _       | 4       | 1       | 1       | 1        | 1.         |              | 84       | 1        | -             | _        | _           | _         | Ш        | 4             | _        | _        |     |           | 134      | $\perp$  | -        | -4       | 4             | -       | _        | -        | -1       | _        |
| <u> </u> | 35       | 1            |          | 4       | +       | 4       | 1       | 1       | 1        | 1          |              | 85       | Н        | -             | -        | 4           | -         |          | 4             | _        |          | - 1 | -         | 135      |          | _        | 4        | -             | 4       | -1       |          |          | 4        |
| -        | 36_      | -            | $\vdash$ | +       | +       | 4       | +       | +       | +        | 1          |              | 86       | Н        |               | 4        | -           | -         | $\vdash$ | $\rightarrow$ | 4        | -        |     |           | 136      | 1        | -        | -        | $\rightarrow$ | 4       | -1       | -        | -        | -        |
| -        | 37       | ⊢            | $\vdash$ | 4       | +       | +       | +       | +       | +        | 4          | ├_           | 87       | Н        | Н             | -        | -+          | 4         | Н        | -             | -        | -        |     | -         | 137      | +-       | $\dashv$ | +        | 4             | 4       | $\dashv$ |          |          | $\dashv$ |
| -        | 38       | ├-           | $\vdash$ | +       | +       | +       | +       | +       | +        | 4          | <u> </u>     | 88       | Н        | Н             | -+       | +           | -         | Н        | -+            | -        | -4       |     |           | 138      |          | -        | $\dashv$ | -             | -+      | -        | -        | -        | -        |
|          | 39       |              | +        | +       | -       | +       | +       | +       | +        | 1          | <u></u>      | 90       | $\vdash$ | -             | -1       | +           | 4         | Н        | +             | -1       | $\dashv$ | - 1 | -         | 139      | $\vdash$ | -        | +        | $\rightarrow$ | -       | -        | -        | -        | $\dashv$ |
| 1-       | 40       | 1-           | $\vdash$ | +       | +       | +       | +       | +       | +        | 1          | -            | 90       | Н        | -             | -        | +           | $\dashv$  | +        | +             | 4        | $\dashv$ |     |           | 141      | +        | $\dashv$ | -+       | +             | +       | -        | -        | -        | -1       |
| -        | 42       | $\vdash$     | ++       | +       | +       | +       | +       | +       | +-       | 1          |              | 92       | Н        | -             | $\dashv$ | -+          | -         | $\vdash$ | -+            |          |          |     | -         | 141      | 1        | -        | +        | -+            | +       | $\dashv$ | -        | -+       | $\dashv$ |
| -        | 43       | -            | +        | +       | +       | +       | +       | +       | +-       | 1          |              | 93       | $\vdash$ | -             | -+       | +           | 4         | $\vdash$ | -+            | -        | $\dashv$ |     | <b></b> - | 143      |          | $\dashv$ | -        | +             | +       | -+       | -+       | -+       | $\dashv$ |
| -        | 44       | -            | +        | +       | +       | +       | +       | +       | +-       | 1          |              | 94       | $\vdash$ | -             | -        | -           | -         | Н        | $\dashv$      | -        | $\dashv$ |     |           | 144      |          | -        | +        | +             | -       | -+       | -+       | -1       | -        |
| -        | 45       | -            | $\vdash$ | +       | +       | +       | +       | +       | +        | 1          | -            | 95       | $\vdash$ | -             | -        | +           | -         |          | +             | +        | $\dashv$ |     |           | 145      |          | -        | +        | -             | +       | -1       | -1       | -1       | -1       |
| -        | 46       | 1            | $\vdash$ | +       | +       | +       | +       | +       | +        | 1          |              | 96       | 1        | $\dashv$      | +        | +           | $\dashv$  | $\vdash$ | +             | -        | -        |     | -         | 146      |          | -        | +        | +             | +       | +        | -+       | -+       | -1       |
| -        | 47       | $\vdash$     | +        | +       | +       | +       | +       | +       | +-       | 1          | _            | 97       | Н        | -             | -+       | +           | -1        | -        | +             | $\dashv$ | $\dashv$ | . 1 | -         | 147      |          | -        | +        | +             | -       | -+       | -        | -+       | -        |
|          | 17/      | L.,          |          |         |         |         | _       |         |          | J          |              | 101      | _        |               | _        |             |           | -        |               |          |          |     |           | 147      | 1        |          | _        |               |         | _        | -        | -4       |          |